

Mr. John Eash
Thermafiber, Inc., Wabash Plant
3711 West Mill Street Extended
Wabash, IN 46992

Re: 169-17137
Fourth Administrative Amendment to
Part 70 No.: T 169-6218-00009

Dear Mr. Eash:

Thermafiber, LLC was issued a permit on January 16, 2001 for a stationary mineral wool manufacturing source. A letter requesting an administrative amendment was received on January 23, 2003. Thermafiber, LLC has informed IDEM that it has reconditioned the #2 line trimming/sizing section, known as EU-P9, baghouse by installing new bags. The current permitted parametric monitoring operating limit for this process is within a range of 4 to 10 inches of water. Thermafiber, LLC has informed IDEM that after reconditioning the baghouse the lower range is being breached and should be amended to 0.5 to 2 inches of water. Thermafiber, LLC has also requested that the responsible official is amended to reflect the proper personnel. In order to eliminate the need for an administrative amendment in the future if a personnel change were to occur the responsible official section will list the position title and not the person. Pursuant to the provisions of 2-7-11 the permit is hereby administratively amended as follows:

All deleted changes are indicated with strike-out (~~strike-out~~), and new information is indicated with bold (**bold**) type.

Thermafiber, LLC has requested the following change to the Section A.1 Responsible Official.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary mineral wool manufacturing source.

Responsible Official:	Steve Edris Plant Manager
Source Address:	3711 West Mill Street Extended, Wabash, Indiana 46992
Mailing Address:	3711 West Mill Street Extended, Wabash, Indiana 46992
General Source Phone Number:	260 - 563 - 2111
SIC Code:	3296
County Location:	Wabash
County Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act

Thermafiber, LLC has requested the following change to Section D.1.14 Parametric Monitoring item (b).

D.1.14 Parametric Monitoring

- (a) The Permittee shall record the total static pressure drop across the multiclones and side stream baghouses used in conjunction with the two (2) cupolas, at least once per shift when either or both of the cupolas are in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the multiclones and baghouses shall be maintained within the range of 3.0 and 9.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
- (b) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the trimming/sizing section, at least once per shift when the trimming/sizing processes are in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of ~~4.0 and 10.0 inches~~ **0.5 and 2 inches** of water or a range established during the latest stack test.

The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

The following change is noted in Section A.2 and the D.1 Facility Description Section.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (f) One (1) #2 line trimming/sizing section, known as EU-P9, equipped with a baghouse, known as CE7, exhausting through Stack S7, installed in 1955, ~~and~~ replaced in 1978, **and reconditioned in 2003**, capacity: 5.8 tons of fiberized minerals per hour.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (a) One (1) coke-fueled cupola #2, known as EU-P2, installed in 1955, and refurbished in 1995, natural gas supplemented, equipped with a drop-out box, multiclone in series and a side stream baghouse, exhausting through Stack S1, installed in 1995, capacity: 7.0 tons of minerals per hour.
- (b) One (1) coke-fueled cupola #4, known as EU-P4, installed in 1955, and refurbished in 1994, natural gas supplemented, equipped with a drop-out box, multiclone in series and a side stream baghouse, exhausting through Stack S3, installed in 1995, capacity: 8.0 tons of minerals per hour.
- (c) One (1) blowchamber #4, known as EU-P6, installed in 1955, equipped with a dry media filter, exhausting through Stack S4, installed in 1992, capacity: 8.0 tons of fiberized minerals and 0.1 tons of dedusting annealing oil per hour.
- (d) One (1) natural gas-fired curing oven #2, known as EU-P7, rated at 5.7 million British thermal units per hour, exhausting through Stack S5, installed in 1955, and replaced in 1976 through 1978, capacity: 7.0 tons of fiberized minerals per hour.
- (e) One (1) blowchamber #2, known as EU-P8, equipped a dry media filter, exhausting through Stack S6, installed in 1955, replaced in 1978 and refurbished in 1999, capacity: 7.0 tons of fiberized minerals and 1.4 tons of binder and water per hour.
- (f) One (1) #2 line trimming/sizing section, known as EU-P9, equipped with a baghouse, known as CE7, exhausting through Stack S7, installed in 1955, ~~and~~ replaced in 1978, **and reconditioned in 2003**, capacity: 5.8 tons of fiberized minerals per hour.
- (g) One (1) #2 line cooling section, known as EU-P10, exhausting through Stack S8, installed in 1955, and replaced in 1978, capacity: 7.0 tons of fiberized minerals per hour.
- (h) One (1) natural gas-fired #1 boiler, known as EU-P11, rated at 12.5 million British thermal units per hour, exhausting through Stack S9, installed in January 31, 1990.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

As requested by the applicant the following changes are noted in the attached permit pages. The Part 70 Operating Permit No.: T 169-6218-00009 Technical Support Document will not be affected by this administrative amendment. The reason the TSD will not be affected is the permit is the guiding document for all issues and not the TSD.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact James Farrell, at (800) 451-6027, press 0 and ask for James Farrell or extension 3-8396, or dial (317) 233-8396.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments

JF

cc: File - Wabash County
U.S. EPA, Region V
Wabash County Health Department
Air Compliance Section Inspector - Ryan Hillman
Compliance Data Section - Karen Nowak
Administrative and Development - Sara Cloe
Technical Support and Modeling - Michele Boner

PART 70 OPERATING PERMIT

OFFICE OF AIR QUALITY

**Thermafiber, Inc., Wabash Plant
3711 West Mill Street Extended
Wabash, Indiana 46992**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T 169-6218-00009	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: January 16, 2001 Expiration Date: January 15, 2006

First Administrative Amendment 169-14244-00009
Second Administrative Amendment 169-14843-00009
Third Administrative Amendment 169-15023-00009
First Significant Permit Modification No.: 169-15153-00009

Issuance Date: May 30, 2001
Issuance Date: September 18, 2001
Issuance Date: November 5, 2001
Issuance Date: April 9, 2002

Fourth Administrative Amendment No.: 169-17137-00009	Pages Affected: 5, 28, and 32
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date:

SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary mineral wool manufacturing source.

Responsible Official:	Plant Manager
Source Address:	3711 West Mill Street Extended, Wabash, Indiana 46992
Mailing Address:	3711 West Mill Street Extended, Wabash, Indiana 46992
General Source Phone Number:	260 - 563 - 2111
SIC Code:	3296
County Location:	Wabash
County Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) coke-fueled cupola #2, known as EU-P2, installed in 1955, and refurbished in 1995, natural gas supplemented, equipped with a drop-out box, multiclone in series and a side stream baghouse, exhausting through Stack S1, installed in 1995, capacity: 7.0 tons of minerals per hour.
- (b) One (1) coke-fueled cupola #4, known as EU-P4, installed in 1955, and refurbished in 1994, natural gas supplemented, equipped with a drop-out box, multiclone in series and a side stream baghouse, exhausting through Stack S3, installed in 1995, capacity: 8.0 tons of minerals per hour.
- (c) One (1) blowchamber #4, known as EU-P6, installed in 1955, equipped with a dry media filter, exhausting through Stack S4, installed in 1992, capacity: 8.0 tons of fiberized minerals and 0.1 tons of dedusting annealing oil per hour.
- (d) One (1) natural gas-fired curing oven #2, known as EU-P7, rated at 5.7 million British thermal units per hour, exhausting through Stack S5, installed in 1955, and replaced in 1976 through 1978, capacity: 7.0 tons of fiberized minerals per hour.
- (e) One (1) blowchamber #2, known as EU-P8, equipped a dry media filter, exhausting through Stack S6, installed in 1955, replaced in 1978 and refurbished in 1999, capacity: 7.0 tons of fiberized minerals and 1.4 tons of binder and water per hour.
- (f) One (1) #2 line trimming/sizing section, known as EU-P9, equipped with a baghouse, known as CE7, exhausting through Stack S7, installed in 1955, replaced in 1978, and reconditioned in 2003, capacity: 5.8 tons of fiberized minerals per hour.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (a) One (1) coke-fueled cupola #2, known as EU-P2, installed in 1955, and refurbished in 1995, natural gas supplemented, equipped with a drop-out box, multiclone in series and a side stream baghouse, exhausting through Stack S1, installed in 1995, capacity: 7.0 tons of minerals per hour.
- (b) One (1) coke-fueled cupola #4, known as EU-P4, installed in 1955, and refurbished in 1994, natural gas supplemented, equipped with a drop-out box, multiclone in series and a side stream baghouse, exhausting through Stack S3, installed in 1995, capacity: 8.0 tons of minerals per hour.
- (c) One (1) blowchamber #4, known as EU-P6, installed in 1955, equipped with a dry media filter, exhausting through Stack S4, installed in 1992, capacity: 8.0 tons of fiberized minerals and 0.1 tons of dedusting annealing oil per hour.
- (d) One (1) natural gas-fired curing oven #2, known as EU-P7, rated at 5.7 million British thermal units per hour, exhausting through Stack S5, installed in 1955, and replaced in 1976 through 1978, capacity: 7.0 tons of fiberized minerals per hour.
- (e) One (1) blowchamber #2, known as EU-P8, equipped a dry media filter, exhausting through Stack S6, installed in 1955, replaced in 1978 and refurbished in 1999, capacity: 7.0 tons of fiberized minerals and 1.4 tons of binder and water per hour.
- (f) One (1) #2 line trimming/sizing section, known as EU-P9, equipped with a baghouse, known as CE7, exhausting through Stack S7, installed in 1955, replaced in 1978, and reconditioned in 2003, capacity: 5.8 tons of fiberized minerals per hour.
- (g) One (1) #2 line cooling section, known as EU-P10, exhausting through Stack S8, installed in 1955, and replaced in 1978, capacity: 7.0 tons of fiberized minerals per hour.
- (h) One (1) natural gas-fired #1 boiler, known as EU-P11, rated at 12.5 million British thermal units per hour, exhausting through Stack S9, installed in January 31, 1990.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 General Provisions Relating to HAPs [326 IAC 20-1-1] [40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the two (2) cupolas (EU-P2 and EU-P4) and the curing oven (EU-P7) described in this section except when otherwise specified in 40 CFR Part 63, Subpart DDD.

D.1.2 Mineral Wool Production NESHAP [40 CFR 63, Subpart DDD]

Pursuant to 40 CFR 63.1180, the existing mineral wool cupolas, known as EU-P2 and EU-P4, and curing oven, known as EU-P7 operations are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR 63, Subpart DDD), with a compliance date of June 2, 2002.

D.1.3 Particulate Matter (PM) Emission Limitation for Cupolas [40CFR Part 63.1178]

Pursuant to 40CFR Part 63.1178, at all times, except during periods of startup, shutdown, or malfunction, the particulate matter (PM) emissions from cupola #2 and cupola #4, known as EU-P2 and EU-P4, shall not exceed 0.10 pound of PM per ton of melt.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR Part 63]

D.1.13 Visible Emissions Notations

- (a) Visible emission notations of the two (2) cupolas (EU-P2 and EU-P4), the two (2) blow-chambers (EU-P6 and EU-P8), curing oven #2 (EU-P7), line trimmings/sizing section (EU-P9 and the #2 line cooling section (EU-P10) stack exhausts shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.1.14 Parametric Monitoring

- (a) The Permittee shall record the total static pressure drop across the multiclones and side stream baghouses used in conjunction with the two (2) cupolas, at least once per shift when either or both of the cupolas are in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the multiclones and baghouses shall be maintained within the range of 3.0 and 9.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
- (b) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the trimming/sizing section, at least once per shift when the trimming/sizing processes are in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 0.5 and 2 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.